

# Stat 230

## Jun 03 Demo/ Practice problems

All the problems are ungraded. Note that "2.R.13" refers to Chapter 2 review section exercise 13.

**Pr. 1** Pitman 1.5.5 (a) - (d) (Bayes' Rule)

**Pr. 2** Pitman 2.R.7 (Normal Approximation)

**Pr. 3** Pitman 2.R.20 (Total Probability)

**Pr. 4** Pitman 3.R.9 (c) - (d) (Expectation and Variance)

**Pr. 5** Pitman 3.R.22 (Tail sum of expectation)

Try to write down the formula as a function of  $n$ , the number of paper the boy buys each day. To help you solve for b), you can first try to write it down using the information that the demand follows Poisson distribution, then try to write down the general formula using tail sum of expectation for practice.

**Pr. 6** Pitman 4.1.8 (Normal distribution / CLT)